

## RCA LAVALIER DYNAMIC MICROPHONE

Type BK-6B

## FEATURES

- **Lightweight microphone with excellent speech balance when talking "off mike"**
- **Wide-range frequency response—60 to 15,000 cps**
- **Easily concealed in man's hand . . . in clothing . . . on stage settings**
- **Clip type lanyard for ease of looping about neck**
- **Rugged construction . . . color and styling makes it blend with surroundings**



## USES

The RCA Type BK-6B Lavalier Microphone is especially designed for correct speech balance when used informally in television broadcasting interviews and public address applications. The frequency response and directional characteristics are engineered to complement human speech so that the microphone has excellent balance when the performer is talking "off mike."

The BK-6B may be worn by the performer; its small bulk and neutral color make it inconspicuous. The light weight and flexible cable permit free, unhampered movement of the performers. It may be wholly concealed in a man's hand during an interview, or it may easily be concealed on a set. The styling blends readily with any props, and is pleasing where it is exposed to direct view. It is best used, suspended from the neck, resting on the chest, where it attenuates the low pitched chest sounds while at the same time it points straight up toward the lips, the position in which it is most sensitive to the sibilant sounds that would normally be lost.

## DESCRIPTION

A high quality instrument of the pressure actuated type, the Personal Miniature Dynamic Microphone has a frequency response from 60 to 15,000 cycles and a directional characteristic similar to the popular RCA 77-DX in the nondirectional voice "ONE" position. A special internal acoustic resonator is employed to support the response to lower frequencies and a damped resonator placed in front of the diaphragm reduces high frequency emphasis while extending the upper frequency limit. The result is a pleasing balance for speech when the microphone is used "off mike" or worn on the person.

The microphone as shipped from the factory is connected for an output impedance of 250 ohms. However the impedance may be changed to 30 or 150 ohms by a simple cable connection change. The special plastic motor diaphragm and coil assembly, output transformer and terminal board and bracket assembly are housed in a rugged and practically weather-proof case. The entire microphone

ELECTRONIC COMPONENTS AND DEVICES

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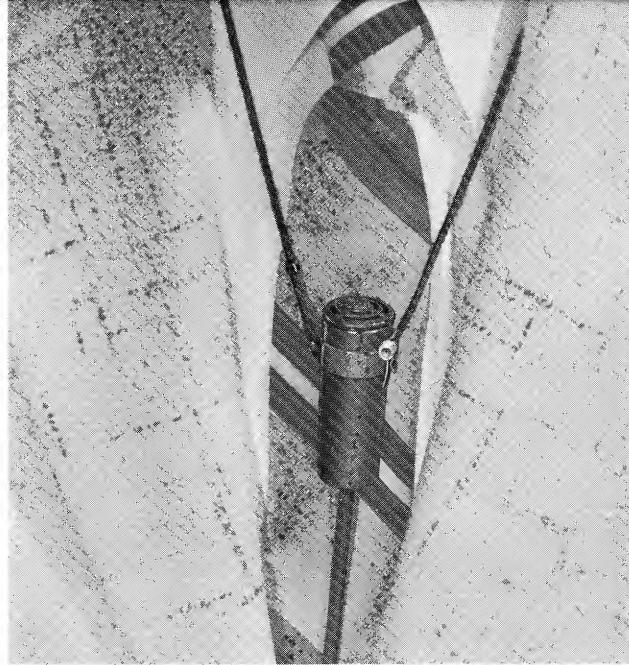
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is only  $2\frac{1}{16}$  inches long and  $1\frac{5}{16}$ -inch in diameter and weighs but 2.3 ozs., less the cable.

The cable, especially designed for the BK-6B unit, has unusual flexibility combined with long life under conditions of severe abuse. The conductors are of cadmium bronze for high flexibility and long flex life. The shield is carbon-impregnated, conducting cotton overlaid with a light metallic braid. The conducting cotton ensures complete electrostatic shielding and the light, metallic braid keeps the series resistance of the shield low without making the cable excessively stiff. The external jacket gives a tough, neutral colored, protective covering to the cable. A lanyard is furnished for mounting the microphone conveniently about the neck.



BK-6B Microphone used as a "necktie" mike. May be positioned beneath the necktie or exposed.

## SPECIFICATIONS

Directional Characteristics .....	Semi-Directional
Frequency Response.....	60 to 15,000 cps, shaped for lavalier use (see curve)
Output Impedance.....	30/150/250 ohms (250 as shipped)
Output Level (1000 cps)	
a. Effective (10 dynes/cm <sup>2</sup> ).....	-65 dbm
b. EIA-G <sub>m</sub> .....	-159 db
Hum Pickup (.001 gauss, 60 cps).....	-112 dbm (max.)
Cable (attached).....	30 ft., 2 conductor shielded, highly flexible, brown PVC jacket
Mounting.....	Removable lanyard for suspending about neck
Dimensions.....	$2\frac{1}{16}$ " long, $1\frac{5}{16}$ " diameter
Weight.....	2.3 ounces less cable
Finish.....	Low luster gray

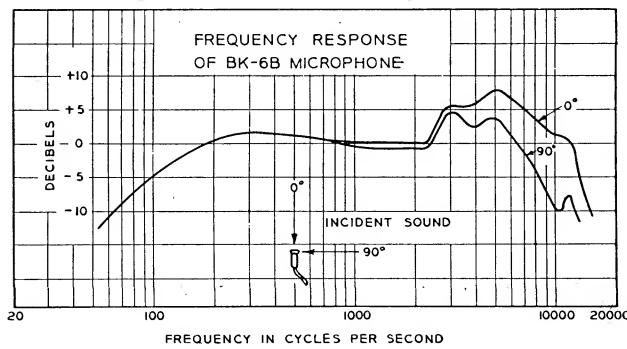
## Ordering Information

Type BK-6B Miniature Dynamic Microphone.....MA-2315

## Accessories

Holder (Clamp Type) for Stand Mounting.....MA-2307

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Frequency Response Curve

## Architects' and Engineers' Specifications

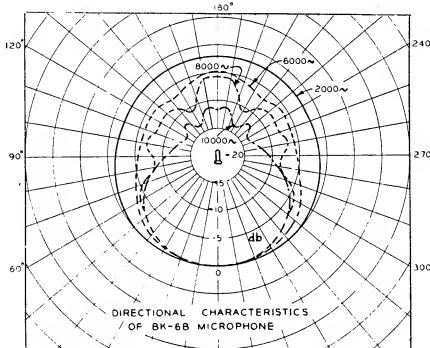
The microphone shall be an RCA BK 6B or equivalent miniature dynamic type which may be worn by the performer. It shall be sufficiently small and light that it can be easily concealed on the person. Frequency response shall be 60 to 15,000 cps and the pick-up characteristics shall be semi-directional. The microphone shall have an output impedance of 250 ohms with provision for switching to 30 or 150 ohms. It shall be supplied with a lanyard for mounting conveniently about the neck. It shall be supplied with 30 feet of 2-conductor cadmium bronze cable with special shielding and flexible jacket with long flex-life.

The following general characteristics shall apply:

Output Level (1000 cps)

a. Effective (10 dynes/cm <sup>2</sup> ).....	-65 dbm
b. EIA-G <sub>m</sub> .....	-159 db

Hum Pickup (.001 gauss, 60 cps).....-112 dbm (max.)



Directional Characteristics